

ABSTRACT

A folding and spreading system for a half spread folding comprises an upper and a lower guider for making the folding door move in a close or open direction; a first wire guider provided at the depth portion of each door leaf in a predetermined distance from a neighboring first wire guider, and a second wire guider installed coaxially to the first wire guider; a folding motor and a spreading motor provided at both end frames of the folding door, respectively, and having a reel at each rotational shaft of each motor; and a winding wire and a releasing wire extended diagonally through each of the wire guiders of each door leaf, respective end of the wires connected to the wire guider and to the reel of the motor, respectively, in order to fold and spread the adjacent two door leaves around the hinge.